



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,389 09/04/2001		/04/2001	Paul James Davis	ISA-048.06	9864
25181	25181 7590 05/30/2006			EXAMINER	
FOLEY HO	•	RLD TRADE CEN	NGUYEN, BAO THUY L		
155 SEAPO	-	idb iidibb obi	ART UNIT	PAPER NUMBER	
BOSTON, 1	MA 02110		1641		

DATE MAILED: 05/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/944,389	DAVIS ET AL.
	Office Action Summary	Examiner	Art Unit
		Bao-Thuy L. Nguyen	1641
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with t	he correspondence address
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Or period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply vill apply and will expire SIX (6) MONTHS , cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 16 M	arch 2006.	
, —		action is non-final.	1000000000000000000000000000000000000
3)	Since this application is in condition for allowar	nce except for formal matters,	, prosecution as to the merits is
•—	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11	I, 453 O.G. 213.
Diamas!4	ion of Claima		
· _	ion of Claims		
4)⊠	Claim(s) <u>103-161</u> is/are pending in the applicat		
	4a) Of the above claim(s) is/are withdraw	vn from consideration.	
·	Claim(s) is/are allowed.		
6)	Claim(s) <u>103-161</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.	
Applicati	ion Papers		
9)	The specification is objected to by the Examine	r.	
•	The drawing(s) filed on is/are: a) acce		he Examiner.
,	Applicant may not request that any objection to the		
	Replacement drawing sheet(s) including the correcti		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Of	fice Action or form PTO-152.
Daile aide	mdo: 25 U.S.O. \$ 440		
Priority (under 35 U.S.C. § 119		
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).
- /.	1.☐ Certified copies of the priority documents	s have been received.	
	2. Certified copies of the priority documents		ication No
	3. Copies of the certified copies of the prior		•
	application from the International Bureau	(PCT Rule 17.2(a)).	
* 5	See the attached detailed Office action for a list	of the certified copies not rec	eived.
Attachmen	t(a)		
_	e of References Cited (PTO-892)	4) Interview Summ	nary (PTO-413)
2) 🔲 Notic	ail Date		
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Inform 6) Other:	nal Patent Application (PTO-152)

DETAILED ACTION

1. The amendment submitted on 16 March 2006 has been received. Claims 1-102 have been canceled. Claims 103-161 have been added and are pending.

Priority

2. It is agreed that the pending claims are fully supported by the foreign priority document and are entitled to a priority date of 17 February 1989.

Claim Rejections - 35 USC § 112

3. Claims 103-161 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 103, 145 and 151 are indefinite because it is unclear if the features recited in the wherein clause are positive limitations of the claimed device. Because these features are vague, it is unclear where the first binding agent is located on the test strip.

Claims 113, 142, 157 and 161 are vague because it appears that these are method steps and not positive limitations of the device.

During a conversation with Dr. Zarutskie on May 25, 2006, it was recommended that the following changes be made to clarify the claims:

103. An immunoassay test device, comprising: a test strip comprising:

Application/Control Number: 09/944,389

Art Unit: 1641

Page 3

a porous sample receiving member, <u>configured to receive a liquid</u> <u>sample</u>,

- a macroporous body,
- a porous carrier comprising a detection zone,
- a first binding reagent for binding an analyte, the first binding reagent is immobilized in the detection zone, [and]

a labeled binding reagent comprising a particulate label portion and a binding portion for binding the analyte[;], the labeled binding reagent is disposed in the macroporous body in a dry state and is mobilizable by liquid that passes along a flow path, and

the labeled binding reagent and the first binding reagent are configured to bind the analyte and to form an immobilized and directly-detectable product in the detection zone, if the analyte is present in liquid received by the sample receiving member; wherein,

[the sample receiving member is configured to received a liquid,]
the test strip defines a flow path along which liquid received by the
sample receiving member can pass to the macroporous body and
thereafter to the porous carrier,

[prior to use, the labeled binding reagent is disposed in a dry state in the macroporous body and is mobilizable by liquid that passes along the flow path, and

the labeled binding reagent and the first binding reagent are configured to bind the analyte and to form an immobilized and directly-detectable product in the detection zone, if the analyte is present in liquid received by the sample receiving member].

113. Cancelled.

Application/Control Number: 09/944,389

Cancelled.

Art Unit: 1641

142.

- 145. An immunoassay test device, comprising:
 - a test strip comprising:
 - a porous sample receiving member, <u>configured to receive a liquid</u> <u>sample</u>,
 - a macroporous body,
 - a porous nitrocellulose carrier comprising a detection zone,
 - a first binding reagent capable of specifically binding a gonadotropin compound, the first binding agent is immobilized in the detection zone, [and]
 - a labeled binding reagent comprising a colored particulate label portion and a binding portion for the gonadotropin compound[;], disposed in the macroporous body in a dry state and is mobilizable by liquid that passes along a flow path, and

the labeled binding reagent and the first binding reagent are configured to bind the gonadotropin compound and to form an immobilized and directly-detectable product in the detection zone, if the gonadotropin compound is present in liquid received by the sample receiving member;

wherein,

[the sample receiving member is configured to received a liquid,] the test strip defines a flow path along which liquid received by the sample receiving member can pass to the macroporous body and thereafter to the porous nitrocellulose carrier at a location separated from the detection zone, and

[prior to use, the labeled binding reagent is disposed in a dry state in the macroporous body and is mobilizable by liquid that passes along the flow path, and

the labeled binding reagent and the first binding reagent are configured to bind the gonadotropin compound and to form an immobilized and directly-detectable product in the detection zone, if the gonadotropin compound is present in liquid received by the sample receiving member].

- 151. An immunoassay test device, comprising:
 - a test strip comprising:
 - a porous sample receiving member, <u>configured to receive a liquid</u> <u>sample</u>,
 - a macroporous body,
 - a porous carrier comprising a detection zone, and
 - a first binding reagent for binding an analyte or an analogue thereof, the first binding reagent is immobilized in the detection zone,
 - a labeled reagent comprising a particulate label portion and the analyte or the analogue thereof, the labeled reagent is disposed in the macroporous body in a dry state and is mobilizable by liquid that passes along a flow path, and

the labeled binding reagent and the first binding reagent are configured to form an immobilized and directly-detectable product in the detection zone,

wherein,

[the sample receiving member is configured to receive a liquid,]

Application/Control Number: 09/944,389 Page 6

Art Unit: 1641

the test strip defines a flow path along which liquid received by the sample receiving member can pass to the macroporous body and thereafter to the porous carrier[7]

[prior to use, the labeled binding reagent is disposed in a dry state in the macroporous body and is mobilizable by liquid that passes along the flow path, and

the labeled binding reagent and the first binding reagent are configured to form an immobilized and directly-detectable product in the detection zone].

- 156. Cancelled.
- 161. Cancelled.

Allowable Subject Matter

4. Claims 103-161 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 103, 145 and 151 define over the prior art of record, specifically, Eisinger et al, because Eisinger does not disclose or make obvious a device comprising in a liquid flow path, a sample receiving member, a macroporous member having labeled reagent, and a porous carrier comprising a detection zone.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 09/944,389

Art Unit: 1641

Page 7

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao-Thuy L. Nguyen whose telephone number is (571) 272-0824. The examiner can normally be reached on Tuesday and Wednesday from 8:00 a.m. -4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1641

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bao-Thuy L. Nguyen Primary Examiner

Art Unit 1641 5 25/06